
8 Turn Lanes

Driveways

Mailbox Approaches

CHAPTER EIGHT:

TURN LANES

Turn lanes are used in conjunction with Public Road Approaches Type C and Type D. These approaches are shown on the Standard Drawings **E 610-PRAP-01** through **E 610-PRAP-14**. The lengths of the tapers and the turn lanes are dependent upon the design speed of the mainline pavement, the angle of the intersection, and the traffic count of the intersecting approach. The tables on the Standard Drawings are used to determine the required distances when the design speed, vertical roadway grade, and angle of intersection are known. These distances are then measured from the station number given for the approach intersection.

After the required offsets are measured and marked, the radius points may then be set. Setting these radius points is discussed in detail in Chapter 7.

DRIVEWAYS

Driveways are shown on Standard Drawings **E 610-DRIV-01** through **E 610-DRIV-14**. There are several types of drives as follows:

- CLASS I:** Private Drive, 6 inch concrete, 10 to 20 feet wide
- CLASS II:** Private Drive, 4 inch HMA, 12 to 24 feet wide
- CLASS III:** Commercial Drive, 6 inch concrete, 20 to 40 feet wide
- CLASS IV:** Commercial Drive, 4 inch HMA, 20 to 40 feet wide
- CLASS V:** Field Entrance (dirt), 24 feet minimum width (32 feet is desirable)
- CLASS VI:** Heavy Industrial and truck stops, concrete or HMA, 6.5 inches minimum thickness, 32 to 50 feet wide
- CLASS VII:** Heavy Industrial and truck stops, concrete, 6 inches minimum thickness, 32 to 50 feet wide

Using the class, station number and width of the drives as given in the approach table in the plans, the radius points may be set and the drives marked out as previously discussed.

MAILBOX APPROACHES

Approaches for driveways and mailboxes are shown on Standard Drawings **E 610-MBAP-01** and **E 610-MBAP-02**. There are three types of approaches:

- 1) Mailbox only
- 2) Mailbox in advance of the drive
- 3) Mailbox beyond the drive

The width of the approach varies according to the traffic volume of the road. The low traffic volume width is used only when the design speed is less than 40 mph and the ADT is less than 100.

Normally, approaches are a minimum of 8 feet wide for an ADT of less than 1500 and 10 feet wide for an ADT over 1500.

Most HMA resurface contracts have approach widths of 8 feet maximum. On some older roads, mailbox approaches may be only 2 feet wide.

The required dimensions are given on the Standard Drawings. On new construction contracts, the approaches may be marked out using the stations given in the approach table on the plans and the dimensions from the Standard Drawings. Adjustments may be necessary so that the approaches match the existing driveways. On resurface contracts, the stations for driveways and mailboxes are not given and they are required to be marked out to match what exists in the field.